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- 1 [Web services for digital rights management and copyright protection](#)  
[Dimitrios K. Tsolis, Theodore S. Papatheodorou](#)  
 September 2008 **DIMEA '08**: Proceedings of the 3rd international conference in Entertainment and Arts

**Publisher:** ACM

 Full text available: [Pdf](#) (763.02 KB)

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The paper focuses on the implementation of an advanced digital rights r which supported by web services offers copyright protection and manag main components of the DRM system are a digital image library, ...

**Keywords:** copyright protection, digital rights management system, m services

- 2 [Opportunities for watermarking standards](#)  
[Fred Mintzer, Gordon W. Braudaway, Alan E. Beil](#)  
 July 1998 **Communications of the ACM** , Volume 41 Issue 7

**Publisher:** ACM

 Full text available: [Pdf](#) (672.37 KB)

 Additional Information: [full citation](#), [references](#), [cite review](#)
**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 60, Citation

- 3 [Print signatures for document authentication](#)  
[Baoshi Zhu, Jiankang Wu, Mohan S. Kankanhalli](#)  
 October 2003 **CCS '03**: Proceedings of the 10th ACM conference on Comput security

**Publisher:** ACM

 Full text available: [Pdf](#) (646.81 KB)

 Additional Information: [full citation](#), [abstract](#), [n](#)
**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 87, Citation

We present a novel solution for authenticating printed paper documents repeatable randomness existing in the printing process. For a document extract the unique features of the non--repeatable ...

**Keywords:** authenticity, laser printer, originality, print signature

- 4 [Composite subset measures](#)

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[Lei Chen](#), [Raghu Ramakrishnan](#), [Paul Barford](#), [Bee-Chung Chen](#), [Vinod Yegorov](#)  
 September 2006 **VLDB '06: Proceedings of the 32nd international conference on Very Large Databases**  
**Publisher:** VLDB Endowment


Full text available:  [Pdf](#) (457.48 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 50, Citation (

Measures are numeric summaries of a collection of data records produced by various functions. Summarizing a collection of subsets of a large dataset, by considering a subset in the (typically, user-specified) collection is ...

## 5 [Dynamic graph-based software fingerprinting](#)

 [Christian S. Collberg](#), [Clark Thomborson](#), [Gregg M. Townsend](#)  
 October 2007 **Transactions on Programming Languages and Systems**  
**Publisher:** ACM


Full text available:  [Pdf](#) (1.48 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 28, Downloads (12 Months): 261, Citation (

Fingerprinting embeds a secret message into a cover message. In media, this is usually a copyright notice and the cover a digital image. Fingerprinting is used to detect intellectual property theft, or when such theft has occurred, ...

**Keywords:** Software piracy, software protection, watermarking


## 6 [In business today and tomorrow](#)



 [Jian Zhao](#), [Eckhard Koch](#), [Chenghui Luo](#)  
 July 1998 **Communications of the ACM**, Volume 41 Issue 7  
**Publisher:** ACM

Full text available:  [Pdf](#) (527.15 KB) Additional Information: [full citation](#), [references](#), [cite this article](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 70, Citation (


## 7 [Populating the Hermitage Museum's new web site](#)



 [Fred Mintzer](#), [Gordon W. Braudaway](#), [Francis P. Giordano](#), [Jack C. Lee](#), [Karl D'Auria](#), [Amnon Ribak](#), [Gil Shapir](#), [Fabio Schiattarella](#), [John Tolva](#), [Andrey Zaslavsky](#)  
 August 2001 **Communications of the ACM**, Volume 44 Issue 8  
**Publisher:** ACM

Full text available:  [Html](#) (35.84 KB),  [Pdf](#) (1.04 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 83, Citation (

## 8 [Communications of the ACM: Volume 51 Issue 2](#)





 February 2008 **Communications of the ACM**  
**Publisher:** ACM

Full text available:  [Digital Edition](#),  [Pdf](#) (3.89 MB) Additional Information: [full citation](#), [abstract](#), [review](#)


**Bibliometrics:** Downloads (6 Weeks): 305, Downloads (12 Months): 2692, Citation (

## 9 [Detecting steganography on a large scale](#)


 William E. E. E.  
 December 2008 **Crossroads**, Volume 15 Issue 2  
**Publisher:** ACM

Full text available:  Pdf (1.61 MB)Additional Information: [full citation](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 29, Citation (**10** [Digital access to antiquities](#) Henry M. Gladney, Fred Mintzer, Fabio Schiattarella, Julián Bescós, Martin  
April 1998 **Communications of the ACM**, Volume 41 Issue 4**Publisher:** ACMFull text available:  Pdf (1.01 MB)Additional Information: [full citation](#), [references](#), [citec](#)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 74, Citation (**11** [Reconfigurable hardware solutions for the digital rights management](#) G. Rouvroy, F.-X. Standaert, F. Lefebvre, J.-J. Quisquater, B. Macq, J.-D. L.  
October 2004 **DRM '04: Proceedings of the 4th ACM workshop on Digital rig****Publisher:** ACMFull text available:  Pdf (440.86 KB)Additional Information: [full citation](#), [abstract](#), [n](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 65, Citation (

This paper presents a hardware implementation of a decoder for Digital  
enables us to deal with image size of 2K with 24 frames per second and  
first implementation known nowadays that perfectly ...


**Keywords:** AES, DRM, FPGA, JPEG 2000, digital cinema, watermarking**12** [Constructing a virtual primary key for fingerprinting relational data](#) Yingjiu Li, Vipin Swarup, Sushil Jajodia  
October 2003 **DRM '03: Proceedings of the 3rd ACM workshop on Digital rig****Publisher:** ACMFull text available:  Pdf (240.49 KB)Additional Information: [full citation](#), [abstract](#), [n](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 63, Citation (

Agrawal and Kiernan's watermarking technique for database relations [7]  
extension [6] both depend critically on primary key attributes. Hence, tl  
marks in database relations without primary key ...

**Keywords:** fingerprinting, primary keys, relational databases, robustne**13** [Compiler optimizations for nondeferred reference: counting garbage](#) Pramod G. Joisha  
June 2006 **ISMM '06: Proceedings of the 5th international symposium on****Publisher:** ACMFull text available:  Pdf (220.00 KB)Additional Information: [full citation](#), [abstract](#), [n](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 32, Citation (

Reference counting is a well-known technique for automatic memory ma  
advantages over other forms of garbage collection. However, on account  
with the maintenance of up-to-date tallies of references ...

**Keywords:** reference counting, static analyses

- 14** [Secure rural supply chain management using low cost paper watermark](#)  
 Ashlesh Sharma, Lakshminarayanan Subramanian, Eric A. Brewer  
 August 2008 **NSDR '08**: Proceedings of the second ACM SIGCOMM workshop on developing regions

**Publisher:** ACM


Full text available:  Pdf (315.26 KB)

Additional Information: [full citation](#), [abstract](#), [n](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 67, Citation

Supply chain systems in rural developing regions are extremely fragile & a range of security threats including theft, fraud and counterfeit goods. In the design of a secure, low cost supply chain management ...

**Keywords:** paper authentication, paper speckle, supply chain

- 15** [What do we know about biometrics authentication?](#)  
 Michelle Boatwright, Xin Luo  
 September 2007 **InfoSecCD '07**: Proceedings of the 4th annual conference on curriculum development

**Publisher:** ACM


Full text available:  Pdf (87.13 KB)

Additional Information: [full citation](#), [abstract](#), [n](#)

**Bibliometrics:** Downloads (6 Weeks): 99, Downloads (12 Months): 359, Citation

There are many types of network security measures. One way of doing network authentication, which is a method utilized by matching an individual's global characteristics with data that have previously been captured, ...

**Keywords:** authentication, biometrics

- 16** [An efficient parts-based near-duplicate and sub-image retrieval system](#)  
 Yan Ke, Rahul Sukthankar, Larry Huston  
 October 2004 **MULTIMEDIA '04**: Proceedings of the 12th annual ACM international Multimedia

**Publisher:** ACM


Full text available:  Pdf (573.85 KB)

Additional Information: [full citation](#), [abstract](#), [n](#)

**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 200, Citation

We introduce a system for near-duplicate detection and sub-image retrieval for finding copyright violations and detecting forged images. We define near-duplicate images as images that have been altered with common transformations such as changing ...

**Keywords:** interest points, local image descriptors, locality-sensitive hashing, image detection, sub-image retrieval

- 17** [Video booklet: a natural video searching and browsing interface](#)  
 Cai Zhi Zhu, Xian-Sheng Hua, Tao Mei, Xiu-Qing Wu  
 November 2005 **MIR '05**: Proceedings of the 7th ACM SIGMM international


information retrieval

**Publisher:** ACMFull text available:  Pdf (1.74 MB)Additional Information: [full citation](#), [abstract](#), [n](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 38, Citation (

In this paper, we propose a novel system, named Video Booklet, which personal video browsing and searching. In the system, firstly represent: of video segments are selected through an elaborate ...

**Keywords:** active shape models, self-training, video album, video book summarization


# 18 Randomized radon transforms for biometric authentication via finger

 [Mariusz H. Jakubowski](#), [Ramarathnam Venkatesan](#)
October 2007 **DRM '07**: Proceedings of the 2007 ACM workshop on Digital I**Publisher:** ACMFull text available:  Pdf (282.42 KB)Additional Information: [full citation](#), [abstract](#), [n](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 168, Citatio

We present a new technique for generating biometric fingerprint hashes contained in human fingerprints. Our method calculates and aggregates metrics over fingerprint images, producing short hash strings ...

**Keywords:** authentication, biometrics, fingerprints, hashing, radon tran





# 19 Public key superstructure "it's PKI Jim, but not as we know it!"

 [Stephen Wilson](#)
March 2008 **IDtrust '08**: Proceedings of the 7th symposium on Identity an**Publisher:** ACMFull text available:  Pdf (684.07 KB)Additional Information: [full citation](#), [abstract](#), [n](#)**Bibliometrics:** Downloads (6 Weeks): 52, Downloads (12 Months): 253, Citatio

While PKI has had its difficulties (like most new technologies) the unique authentication in paperless transactions is now widely acknowledged. The all-purpose identity system has given way to a ...

**Keywords:** PKI, authentication, digital certificates, public key infrastruc

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